

6.1

$$\begin{array}{l} 1) \quad 9 + 8b \\ \quad 1(9 + 8b) \end{array}$$

$$\begin{array}{l} 3) \quad 45x^2 - 25 \\ \quad 5(9x^2 - 5) \end{array}$$

$$\begin{array}{l} 5) \quad 56 - 35p \\ \quad 7(8 - 5p) \end{array}$$

$$\begin{array}{l} 7) \quad 7ab - 35a^2b \\ \quad 7ab(1 - 5a) \end{array}$$

$$\begin{array}{l} 9) \quad -3a^2b + 6a^3b^2 \\ \quad -3a^2b(1 - 2ab) \end{array}$$

$$\begin{array}{l} 11) \quad -5x^2 - 5x^3 - 15x^4 \\ \quad -5x^2(1 + x + 3x^2) \end{array}$$

$$\begin{array}{l} 13) \quad 20x^4 - 30x + 30 \\ \quad 10(2x^4 - 3x + 3) \end{array}$$

$$\begin{array}{l} 15) \quad 28m^4 + 40m^3 + 8 \\ \quad 4(7m^4 + 10m^3 + 2) \end{array}$$

$$\begin{array}{l} 17) \quad 30b^9 + 5ab - 15a^2 \\ \quad 5(6b^9 + ab - 3a^2) \end{array}$$

$$\begin{array}{l} 19) \quad -48a^2b^2 - 56a^3b - 56a^5b \\ \quad -8a^2b(6b + 7a + 7a^3) \end{array}$$

$$\begin{array}{l} 21) \quad 20x^8y^2z^2 + 15x^5y^2z + 35x^3y^3z \\ \quad 5x^3y^2z(4x^5z + 3x^2 + 7y) \end{array}$$

$$\begin{array}{l} 23) \quad 50x^2y + 10y^2 + 70xz^2 \\ \quad 10(5x^2y + y^2 + 7xz^2) \end{array}$$

$$\begin{array}{l} 25) \quad 30qpr - 5qp + 5q \\ \quad 5q(6pr - p + 1) \end{array}$$

$$\begin{array}{l} 27) \quad -18n^5 + 3n^3 - 21n + 3 \\ \quad -3(6n^5 - n^3 + 7n - 1) \end{array}$$

$$\begin{array}{l} 29) \quad -40x^{11} - 20x^{12} + 50x^{13} - 50x^{14} \\ \quad -10x^{11}(4 + 22x - 5x^2 + 5x^3) \end{array}$$

$$\begin{array}{l} 31) \quad -32mn^8 + 4m^6n + 12mn^4 + 16mn \\ \quad -4mn(8n^7 - m^5 - 3n^3 - 4) \end{array}$$